

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P256901

Luminaire Tested: **HGL-S-BA-60L930-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-60L930-UNV-8
Description: HUGO 8 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (336) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8556.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 8' x H: 0.01')
CIE Type: Direct

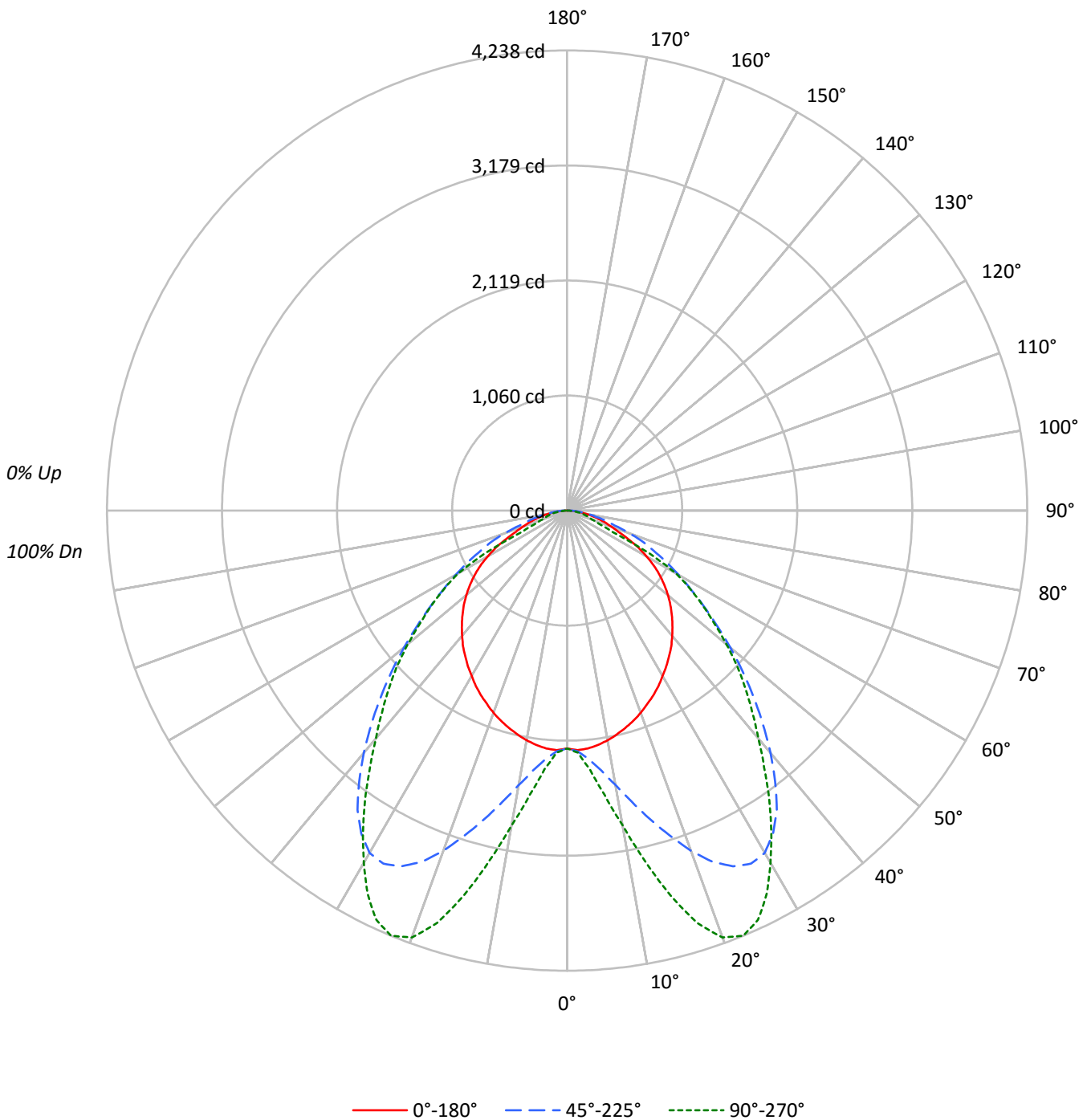
Input Watts (W): 94.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P256901

CATALOG NUMBER: HGL-S-BA-60L930-UNV-8

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12861	12861	12861
5°	12962	13493	14045
10°	12803	15218	17426
15°	12589	17712	22029
20°	12380	20586	25733
25°	12152	23078	26408
30°	11912	24231	24765
35°	11725	23605	22557
40°	11524	21754	20270
45°	11312	19540	18498
50°	11052	17249	16628
55°	10642	15046	14697
60°	9921	13213	12666
65°	8596	11450	5662
70°	7396	9655	3913
75°	6776	7496	3539
80°	6090	6097	3095
85°	5061	5314	2112



TEST NUMBER: P256901

CATALOG NUMBER: HGL-S-BA-60L930-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	2.7
10°-20°	828.3	9.7
20°-30°	1499.2	17.5
30°-40°	1799.2	21.0
40°-50°	1704.4	19.9
50°-60°	1335.5	15.6
60°-70°	745.4	8.7
70°-80°	315.9	3.7
80°-90°	98.3	1.1
90°-100°	3.5	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2554.6	29.9
0°-40°	4353.8	50.9
0°-60°	7393.8	86.4
0°-90°	8553.2	100.0
90°-120°	3.5	0.0
90°-150°	3.5	0.0
90°-180°	4.0	0.0
0°-180°	8556.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2191	2191	2191	2191	2191	
5°	2200	2208	2296	2372	2392	208
15°	2072	2320	2939	3478	3667	584
25°	1877	2466	3615	4056	4159	865
35°	1637	2522	3366	3225	3243	1025
45°	1364	2309	2428	2258	2325	1052
55°	1042	1678	1536	1487	1525	928
65°	620	775	880	708	446	620
75°	300	311	370	262	181	320
85°	76	87	108	83	47	85
90°	0	18	34	22	0	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P256901

CATALOG NUMBER: HGL-S-BA-60L930-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6
2.5°	2208.5	2206.2	2199.5	2190.6	2192.8	2195.0	2195.0	2197.3	2199.5	2206.2	2219.7
5°	2199.5	2195.0	2192.8	2190.6	2201.8	2208.5	2215.2	2228.6	2244.3	2269.0	2295.8
7.5°	2177.1	2177.1	2181.6	2190.6	2215.2	2230.9	2244.3	2277.9	2316.0	2363.0	2414.5
10°	2148.0	2152.5	2165.9	2186.1	2230.9	2255.5	2282.4	2338.4	2403.3	2481.7	2566.9
12.5°	2112.2	2121.1	2143.5	2181.6	2248.8	2286.9	2327.2	2412.3	2508.6	2620.6	2746.0
15°	2071.9	2083.1	2118.9	2174.9	2266.7	2320.5	2376.5	2492.9	2625.1	2775.2	2938.7
17.5°	2029.3	2045.0	2094.3	2172.6	2291.4	2358.6	2430.2	2582.5	2752.8	2934.2	3135.8
20°	1982.3	2004.7	2067.4	2168.2	2313.8	2396.6	2484.0	2674.4	2882.7	3097.7	3332.9
22.5°	1928.5	1957.6	2036.0	2159.2	2336.2	2434.7	2537.7	2759.5	3001.4	3245.5	3500.9
25°	1877.0	1908.3	2000.2	2148.0	2354.1	2466.1	2584.8	2837.9	3108.9	3366.5	3615.1
27.5°	1821.0	1856.8	1966.6	2136.8	2367.5	2492.9	2625.1	2902.8	3187.3	3442.6	3666.6
30°	1758.3	1805.3	1928.5	2118.9	2374.2	2513.1	2656.5	2954.4	3236.6	3460.6	3639.7
32.5°	1700.0	1751.6	1885.9	2098.7	2376.5	2524.3	2676.6	2970.0	3236.6	3420.2	3527.8
35°	1637.3	1693.3	1843.4	2074.1	2367.5	2522.1	2674.4	2965.6	3189.5	3315.0	3366.5
37.5°	1574.6	1635.1	1798.6	2040.5	2347.4	2506.4	2658.7	2920.8	3093.2	3160.4	3147.0
40°	1505.2	1572.4	1740.4	1997.9	2311.5	2466.1	2611.7	2842.4	2952.1	2963.3	2914.0
42.5°	1435.7	1505.2	1682.1	1941.9	2251.0	2398.9	2533.3	2716.9	2768.4	2743.8	2667.7
45°	1364.1	1435.7	1612.7	1874.7	2174.9	2309.3	2421.3	2553.4	2553.4	2508.6	2428.0
47.5°	1290.1	1359.6	1538.8	1796.4	2076.3	2192.8	2284.6	2363.0	2327.2	2271.2	2190.6
50°	1211.8	1281.2	1455.9	1702.3	1948.7	2045.0	2121.1	2150.2	2094.3	2031.5	1959.9
52.5°	1128.9	1198.3	1357.3	1583.6	1798.6	1870.3	1926.3	1924.0	1856.8	1800.8	1738.1
55°	1041.5	1104.2	1247.6	1442.5	1619.4	1677.6	1711.2	1684.4	1621.6	1570.1	1536.5
57.5°	949.7	1001.2	1124.4	1283.4	1415.6	1460.4	1480.5	1444.7	1399.9	1368.5	1350.6
60°	846.7	889.2	976.6	1099.8	1196.1	1227.4	1240.9	1216.2	1200.6	1191.6	1187.1
62.5°	739.1	759.3	815.3	895.9	976.6	999.0	1014.6	1019.1	1016.9	1021.4	1032.6
65°	620.4	627.2	645.1	685.4	748.1	775.0	804.1	835.5	853.4	871.3	880.3
67.5°	510.7	512.9	521.9	535.3	560.0	589.1	613.7	660.8	701.1	734.7	757.1
70°	432.3	430.0	432.3	439.0	452.4	463.6	474.8	508.4	551.0	607.0	611.5
72.5°	365.1	362.9	365.1	369.6	374.1	378.5	385.3	398.7	423.3	456.9	463.6
75°	300.1	300.1	300.1	304.6	309.1	311.3	315.8	320.3	329.3	353.9	369.6
77.5°	239.7	237.4	241.9	244.1	246.4	250.9	253.1	257.6	262.1	271.0	282.2
80°	181.4	179.2	181.4	185.9	188.1	192.6	192.6	199.3	201.6	208.3	212.8
82.5°	127.7	125.4	127.7	132.2	132.2	136.6	138.9	143.3	147.8	152.3	156.8
85°	76.2	76.2	78.4	80.6	82.9	87.4	89.6	96.3	100.8	105.3	107.5
87.5°	33.6	33.6	35.8	38.1	42.6	47.0	49.3	53.8	58.2	65.0	65.0
90°	0.0	2.2	6.7	11.2	13.4	17.9	17.9	24.6	26.9	31.4	33.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	4.5	6.7	9.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256901

CATALOG NUMBER: HGL-S-BA-60L930-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256901

CATALOG NUMBER: HGL-S-BA-60L930-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6	2190.6
2.5°	2239.8	2226.4	2235.4	2237.6	2239.8	2235.4	2230.9	2235.4	2230.9	2230.9
5°	2329.4	2327.2	2349.6	2365.3	2372.0	2372.0	2385.4	2394.4	2396.6	2392.2
7.5°	2470.5	2484.0	2528.8	2560.1	2578.1	2587.0	2611.7	2625.1	2643.0	2640.8
10°	2656.5	2699.0	2766.2	2811.0	2842.4	2858.0	2893.9	2918.5	2947.6	2945.4
12.5°	2860.3	2938.7	3032.7	3104.4	3151.5	3180.6	3227.6	3272.4	3299.3	3301.5
15°	3091.0	3198.5	3326.2	3418.0	3478.5	3516.6	3581.5	3626.3	3671.1	3666.6
17.5°	3317.2	3447.1	3601.7	3722.6	3778.6	3814.4	3892.8	3939.9	3982.4	3982.4
20°	3518.8	3668.9	3825.6	3937.6	3991.4	4027.2	4094.4	4141.5	4172.8	4184.0
22.5°	3680.1	3818.9	3951.1	4047.4	4081.0	4110.1	4161.6	4199.7	4219.9	4237.8
25°	3769.7	3881.6	3971.2	4038.4	4056.4	4072.0	4101.1	4130.3	4134.7	4159.4
27.5°	3771.9	3854.8	3904.0	3928.7	3930.9	3930.9	3951.1	3962.3	3971.2	3980.2
30°	3691.3	3729.3	3738.3	3740.5	3729.3	3722.6	3736.1	3738.3	3745.0	3745.0
32.5°	3530.0	3538.9	3523.3	3498.6	3491.9	3478.5	3487.4	3483.0	3494.2	3500.9
35°	3323.9	3308.2	3267.9	3250.0	3225.4	3218.7	3225.4	3220.9	3227.6	3243.3
37.5°	3088.7	3055.1	3021.5	2990.2	2972.3	2954.4	2961.1	2967.8	2976.7	2981.2
40°	2846.8	2802.0	2766.2	2734.8	2716.9	2703.5	2714.7	2721.4	2741.6	2741.6
42.5°	2602.7	2553.4	2517.6	2497.4	2484.0	2472.8	2490.7	2495.2	2519.8	2524.3
45°	2360.8	2318.2	2289.1	2269.0	2257.8	2262.2	2280.2	2291.4	2313.8	2325.0
47.5°	2139.0	2103.2	2071.9	2062.9	2062.9	2067.4	2085.3	2096.5	2114.4	2127.8
50°	1921.8	1894.9	1874.7	1863.5	1865.8	1872.5	1888.2	1897.1	1915.1	1915.1
52.5°	1709.0	1691.1	1682.1	1668.7	1668.7	1666.4	1682.1	1691.1	1704.5	1706.8
55°	1523.1	1507.4	1498.5	1489.5	1487.3	1491.7	1500.7	1507.4	1523.1	1525.3
57.5°	1346.1	1339.4	1332.7	1326.0	1323.7	1326.0	1330.5	1334.9	1343.9	1346.1
60°	1184.9	1182.6	1173.7	1167.0	1164.7	1162.5	1160.2	1158.0	1162.5	1160.2
62.5°	1037.0	1030.3	1023.6	1010.2	1003.4	985.5	963.1	913.9	873.5	851.1
65°	891.5	887.0	855.6	763.8	707.8	636.1	560.0	486.0	461.4	445.7
67.5°	750.3	676.4	564.4	483.8	454.7	427.8	387.5	347.2	324.8	311.3
70°	539.8	477.1	425.6	380.8	360.6	344.9	313.6	284.5	264.3	255.3
72.5°	436.8	396.5	362.9	329.3	313.6	295.7	264.3	235.2	217.3	208.3
75°	365.1	340.5	306.9	275.5	262.1	248.6	226.2	203.8	188.1	181.4
77.5°	288.9	275.5	255.3	230.7	219.5	210.5	190.4	174.7	159.0	152.3
80°	212.8	208.3	194.9	176.9	168.0	161.3	145.6	132.2	118.7	114.2
82.5°	156.8	152.3	141.1	127.7	123.2	116.5	105.3	94.1	85.1	80.6
85°	107.5	105.3	96.3	87.4	82.9	78.4	67.2	58.2	51.5	47.0
87.5°	67.2	65.0	60.5	51.5	47.0	42.6	33.6	26.9	20.2	17.9
90°	33.6	33.6	31.4	24.6	22.4	20.2	13.4	6.7	2.2	0.0
92.5°	9.0	9.0	9.0	6.7	6.7	4.5	2.2	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256901

CATALOG NUMBER: HGL-S-BA-60L930-UNV-8

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)